

To: Customers

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Jun 2021

Fuji Electric Co., Ltd

Fuji Electric Exhaust Gas Cleaning System (EGCS)

Cleaning of pH Sensor (Guidance)

We would like to express our deepest appreciation to you for your continued support for our ship exhaust gas cleaning systems (EGCS).

We received the report of pH sensor malfunction. After investigating the cause of the problem, it was found that the cleaning was insufficient when performing the calibration.

Content:

1. Measured value is not stable and cannot be calibrated
2. Abnormal pH measurement (measured value is zero or minus)

Cause

Dirt on the pH sensor due to poor cleaning.

Countermeasure

Before performing calibration, please clean the pH sensor according to the attached manual "Cleaning of pH sensor". Use a nylon brush (for example, it is like a toothbrush) for cleaning. (Do not use a metal brush as it will damage the glass.)

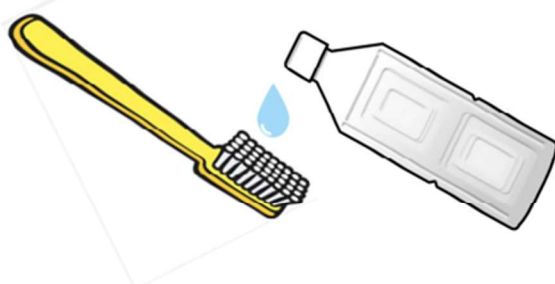
Cleaning of pH sensor

Clean the glass and PTFE membrane(white part) of pH sensor regularly.
Clean pH sensor before every calibration.

1. Clean the sensor cap with tap water
Use soft brush.
Do not use metallic one !



2. If dirty, use a neutral detergent.
Apply detergent onto the brush,
and then wash the sensor with tap water firmly



New membrane(left) and dirty(right)

3. After cleaning, wipe pH sensor with waste cloth or paper



4. Before calibration, soak pH sensor into buffer more than 10 minutes, then start calibration.